

Data – Pro C-Band PLL LNB 3000 Series

LNB

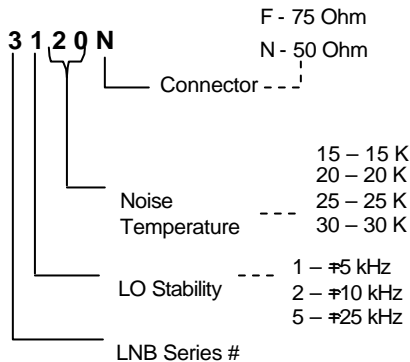


The 3000 Series is Norsat's premium quality C-Band PLL LNB, the preferred LNB for all C-Band applications.

The 3000 Series is designed to provide higher performance for VSAT and select digital applications such as:

- Low data rate digital video
- A reference LNB for Rx test and service
- SCPC digital or analog audio applications
- Low speed SCPC data from 19.2 Kbps to 512 Kbps, or any higher data rate

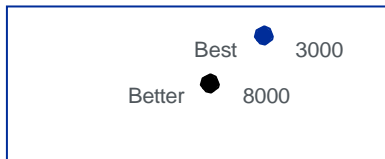
How to Order a 3000 Series LNB



Norsat Advantages

- Norsat LNBs are graded by Stability and Noise Temperature to provide the perfect balance between required performance and cost
- Proven reliability for lower lifetime costs
- Best LO stability to control receiver drift and employ lower bit rates or narrower space segment
- Superior Phase Noise to lower Carrier to Noise margins, improving BER

C-Band Series



Norsat C-Band LNB Product Line

	8000	3000
Noise Temperature	15K to 25K	15K to 30K
Input VSWR	2:1	2.2:1
LO Stability	±100 to ±500 kHz	±5 to ±25 kHz
Phase Noise	-65 dBc/Hz @ 1kHz	-75 dBc/Hz @ 1kHz
Output Connector	N or F	N or F

Norsat 3000 Series Specifications

Electrical Specifications

RF Input Frequency

- 3.4 to 4.2 GHz

Input VSWR

- 2.2 : 1 maximum

IF Output Frequency

- 950 to 1750 MHz

Output VSWR

- N-Connector: 2.2 : 1 maximum, 50 Ohms
- F-Connector: 2.2 : 1 maximum, 75 Ohms

Gain

- 55 dB minimum
- 70 dB maximum

Gain Flatness

- 1 dB p-p maximum per 27 MHz segment

1 dB Gain Compression Point

- +9 dBm minimum

Noise Temperature

- 20K to 30K depending on model number

Image Rejection

- 45 dB minimum

Local Oscillator Frequency

- 5.15 GHz

Local Oscillator Stability

- ± 5 kHz to ± 25 kHz depending on model number

Local Oscillator Leakage

- -45 dBm maximum measured at waveguide input

Mechanical Specifications

Input Interface

- CPR-229G Waterproof (Mated with matching flange and gasket)

Output Interface

- F-Type, 75 Ohm, Female Waterproof
- N-Type, 50 Ohm, Female Waterproof

Size

- 180 x 100 x 70 mm
- 7.1 x 4 x 2.8 in

Weight

- 700g / 25 oz maximum

Paint / Color

- White, Munsell N9.5 semigloss

Environmental Specifications

Operating Temperature

- -30 to +55 degrees Celsius

Relative Humidity

- Up to 100% condensation and frost

Power Requirements

Input DC Voltage

- +15 to +24 V supplied through center conductor of IF cable

Current Drain

- 350 mA typical

